OCR

ODP # 4225-77

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MEMORANDUM FOR: Director of Data Processing

FROM : H. C. Eisenbeiss
Director of Central Reference

SUBJECT : OCR ADP Resource Requirements for FY 1978-1983

REFERENCE : Memo to D/ODP fr D/OCR dtd 23 Nov 76,
Subject: ADP Resource Requirements for
FY 1977-1982

1. In November 1976 we provided to ODP estimates of OCR ADP resource requirements for FY 1977 through FY 1982 (see reference). A recent review of those requirements shows only a slight change. This memorandum addresses OCR's major on-line systems and changes which have surfaced since our last submission. In view of ODP plans to eventually convert all DASD storage to 3330 Model 11 units (dual density), we have reported our on-line storage requirements accordingly (attachment I). Heretofore, DASD estimates were based on the 3330 Model 1.

2. Project SAFE - Interim SAFE requirements are provided by the OCR Systems Analysis Staff. Resource requirements for SAFE have levelled off and, except for one additional DASD spindle required in FY 1979 (to accommodate file growth), no other additional resources are anticipated.

3. RECON/Subject File - Much work has been done by both ODP and OCR to make RECON a dependable on-line query and retrieval system. There have been numerous improvements in quality control, file build/restart procedures and output format selection. The modest core increase of 20K in FY 1980 takes into account continued enhancements to RECON. File growth, which surpassed three million records in August 1977, will stabilize in early 1978 when OCR will begin a yearly purge of records over ten years old. The required number of DASD spindles when the purge program begins should be around 12-13 in the early part of each year and grow to 14-15 by each year's end.

SUBJECT: OCR ADP Resource Requirements for FY 1978-1983

4. <u>On-Line Data Entry (OLDE)</u> - Although OLDE now uses only 310K of core storage, the installation of five additional COMTEN lines in FY 1978 will increase the core requirement to about 480K. The additional lines will be primarily used to enter maintenance statements for the RECON system.

We have accomplished our goal of installing a "paperless edit" system whereby OCR can edit its Subject file input directly on-line, eliminating the need to transmit data to our Hetra station for printing.

5. <u>Document Dissemination</u> - A feasibility study showed that this dissemination process should remain a manual operation. Resource requirements reflected in the November 1976 estimates have been dropped.

6. _____ - This GIMS   STAT application, which is in partial production, is being developed by ODP Applications Group. The project officer is _____. We have STATINTL provided DASD estimates in the past which were furnished by the ODP project officer. There are numerous - almost endless - reasons why original estimates are subject to change. Accordingly, we have contacted
STATINTL _____ and asked that he <u>transmit resource</u> requirements for this project through his channels to _____ (providing us with a file STATINTL copy).
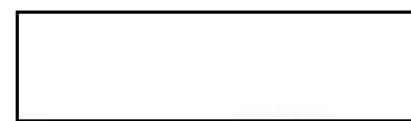
7. <u>Machine Aided Index System (MAIS)</u> - This is a new entry to the requirements paper. MAIS is designed to facilitate the index process and help build on-line files for Interim SAFE as well as for our Information Services Group. MAIS simultaneously displays on a CRT a message to be indexed and, on an adjacent CRT, an indexing form which is already partially completed using terms extracted from the message content. Index terms can be added or modified by the user on viewing the message text. We expect no growth in resource requirements beyond the original estimates.

8. <u>Project MAD</u> - We understand the scheduled date for transfer of message traffic to the Office of Communications to be late February 1978. Slippage could occur in this schedule. However, with the shift of this traffic to OC, we expect to reduce core requirements from 300K to 200K by late Spring 1978. OCR will <u>continue</u> to use MAD software to build SAFE files and to process OAK _____ data. No other resource STATSPEC changes are anticipated for this project.

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     9.   We do not anticipate any significant variances in resource requirements over the next 12 months. We will notify you promptly if this should change. If additional information is required, please contact

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H. C. Eisenbeiss

Attachments:
1. Estimated On-Line Storage Requirements (Att. I)
2. Estimated Core Requirements (Att. II)
3. Estimated Requirements for Low Speed Terminals (Att. III)
4. Referenced Memo

1- C/SPS/ODP
1- C/ED/ODP

ATTACHMENT I

Estimated On-Line Storage Requirements 1/

	FY78	FY79	FY80	FY81	FY82	FY83
OLDE	1	1	1.5	1.5	1.5	1.5
AEGIS On-Line 2/	3	3	3	3	3	-
MAD/ALPHA	3	3	3	3	3	-
MAIS 3/	1	1	1	1	1	1
RECON 4/	13	15	15	15	15	15
Other	1	1.5	1.5	2	3	3
SUBTOTAL	22	24.5	25	25.5	26.5	20.5
Interim SAFE	7	8	8	8	-	-
TOTAL	29	32.5	33	33.5	26.5	20.5

1/   Numbers represent total requirements for 3330 Model 11 type DASD spindles available during prime time (0730 - 1700 daily). All packs except RETST1=DA3120 and RETST2=DA3121 must be accessible during prime time by both the 158-1 and the batch system main frames.

2/   OCR has converted its AEGIS Subject file to RECON. Interim AEGIS SAFE files, however, pose conversion problems that may extend use of AEGIS beyond FY82.

3/   MAIS (Machine Aided Index System) is a new entry in the resource estimates. Since it is work space for transient data, no growth is expected.

4/   Experience to date shows the RECON Subject file growing at the rate of one pack every 6 months until January 1978 when OCR expects to begin purging records over ten years old. After that, the file should stabilize at about 15 packs.

ATTACHMENT II

Estimated Core Requirements 1/
(Numbers represent thousands of bytes)

Project	FY78	FY79	FY80	FY81	FY82	FY83
OLDE	480	480	480	480	500	500
AEGIS On-Line	200	200	200	200	200	-
MAD/ALPHA	200	200	200	200	200	-
DOD/IR	200	-	-	-	-	-
MAIS	150	150	150	150	150	150
RECON	300	300	320	320	320	320
SUBTOTAL	1530	1330	1350	1350	1370	970
Interim SAFE 2/	778	778	778	778	-	-
TOTAL	2308	2108	2128	2128	1370	970

1/ Core requirements reflect estimates for prime time on-line support only.

2/ Interim SAFE includes the individual programs of SQUIRL (40K),
    COLTS II (350K), SAFEOLDE (168K), and OLTA II (220K). Continuance
    of Interim SAFE through FY81 is assumed.

ATTACHMENT III

Estimated Requirements for Low Speed Terminals 1/

ISG	FY78	FY79	FY80	FY81	FY82	FY83
OLDE	-	-	-	-	-	-
RECON	-	3/0	-	-	-	-
DSG/SSD						
Programmer Support	2/1	-	-	-	-	-
Data Management Br 2/	2/1	-	-	-	-	-
DSG/ISG						
Contingency 3/	5/1	5/2	5/0	5/0	5/2	5/2
Interim SAFE	-	-	-	-	-	-
TOTAL	9/3	8/2	5/0	5/0	5/2	5/2
CUMULATIVE	121/24	129/26	134/26	139/26	144/28	149/30

1/ Entries reflect additional terminal requirements per fiscal year. Format
    for individual entries: V/P, where V = number of visual display units
    (e.g., Delta Data terminals) and P = number of remote printers (e.g.,
    Texas Instrument S-7000).

2/ The additional printer and terminals in FY78 will be used by DMB for
    system documentation/problem investigation.

3/ Terminal requirements for FY78/83 are highly speculative. Requirement
    for 37 VDU's and 6 printers during this period is based on possible
    expansion of on-line services.

23 NOV 1976

MEMORANDUM FOR: Director of Data Processing

FROM   : H. C. Eisenbeiss
                  Director, Central Reference Service

SUBJECT   : ADP Resource Requirements for FY 1977-1982

REFERENCES   : (a) Memo to C/DDI/MS fr D/CRS dtd 12 Feb 76,
                      Subject: ADP Requirements for
                      FY 1978-1982

                  (b) Memo to DC/OD/ODP fr C/DMB dtd 18 Feb 76,
                      Subject: CRS ADP Resource Projections,
                      Fiscal Years 1977 Through 1982

    1.   In February 1976, we provided your office with
estimates of CRS ADP resource requirements for FY 1977
through FY 1982 (see references). A recent review of the
estimates outlined in our 12 February 1976 resource paper
shows that CRS ADP resource projections have changed only
slightly. This memorandum outlines our major on-line
systems and changes which have surfaced since our last
submission. CRS ADP requirements during the past six months
seem to have leveled off for the first time since the
CRS/OJCS computer center merger.

    2.   Project SAFE - Interim SAFE requirements are based
on data provided by the CRS Systems Analysis Staff and
the ODP Special Projects Staff. Interim SAFE will require
approximately 70 to 75 additional cylinders of 3330 MOD 11
disk space to support user file growth (AEGIS formatted
data files). This requirement is based on a file growth
factor of 2500 - 3000 records per month. Disk space
required to support four additional user mail files (OLTA
formatted data files) is projected at 25% of the existing
space. This will require approximately one 3330 MOD 11
pack. These additional disk space requirements, however,
can be absorbed within our current disk space allocations.
Beyond this, Interim SAFE has no further hardware
requirements. Core and CPU resources are not significantly
impacted.

SUBJECT: ADP Resource Requirements for FY 1977-1982

3. AEGIS/RECON - In August 1976, SSD began an in-depth study of the RECON Subject file integrity. We discovered missing records, duplicate records and a need to invert the Process Date field. There were also weak areas in our RECON/AEGIS updating procedures. Since surfacing these problems the update procedures have been corrected and SSD, with ODP's support, started rebuilding the RECON file on 12 November 1976. When the file rebuild is completed there will be approximately 2.8 million AEGIS/RECON Subject records on-line. The RECON disk and core projections of February 1976 are still valid.

4. On-Line Data Entry (ISGOLDE) - The five ISG Area Divisions and the Pictorial Services Division (MOPIRE project) continue to use OLDE as input to the AEGIS and RECON Information Retrieval Systems. One ISG Area Division, NEA, has been equipped with three 4800 baud lines and is experimenting with a "paperless" operation where they both input and edit directly on-line. Core and disk requirements for this system are still valid.

5. Document Dissemination - No change.

6. Automated Biographic Directory Production System - This project is being developed by your office as a GIMS application. The project officer is [ ] Progress to date is good. The Albanian Directory is scheduled to be published in December. Four other automated directories are scheduled to begin production this fiscal year. Disk estimates for this project are the only projections included in this package. Core requirements are not included because the project is a GIMS application supported by ODP.

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7. Project MAD - Responsibility for dissemination of SI messages processed under Project MAD is scheduled to be transferred to the Office of Communications in August 1977. It will be necessary, however, for CRS to continue use of MAD software for building Interim SAFE files, dissemination of OAK/MAD [ ], and dissemination of other special materials for which we will remain responsible. With the exception of core (which we hope to reduce from 300 to 200K in FY 1978) no other resource changes for this project are anticipated. On or

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SUBJECT: ADP Resource Requirements for FY 1977-1982

about 14 December 1976, the OAK/MAD processing will be phased over to a <u>periodic</u> processing schedule (5 runs per day, 7 days per week) rather than the current processing by <u>type</u> (1 run per day, 5 days per week). This job will be run in a batch environment using 300K of core, and will require priority turnaround.

8. We see no significant fluctuation in the upcoming six months. CRS will continue to work closely with ODP personnel and inform them as soon as possible of any resource adjustments. We will also continue to monitor our ADP operating procedures and software to utilize ODP hardware as efficiently as possible. If additional information is required, please contact

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H. C. Eisenbeiss

Attachments:
   1. Estimated On-Line Storage Requirements (Att. I)
   2. Estimated Core Requirements (Att. II)
   3. Estimated Requirements for Low Speed Terminals (Att. III)
   4. Reference a
   5. Reference b

Distribution:
   Orig. & 1 - Addressee
          1 - C/ISG
          1 - C/DSG
          1 - C/SSD
          1 - C/SAS
          1 - C/DDI/PPS
          1 - C/SPS/ODP
          1 - C/ED/ODP
          1 - C/ADD
          1 - C/DMB
          2 - OD/CRS

STATINTL   CRS/SSD/DMB: (23 Nov 76)

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ATTACHMENT I

Estimated On-Line Storage Requirements 1/

	FY77	FY78	FY79	FY80	FY81	FY82
OLDE	1.5	2	2	2.5	2.5	2.5
AEGIS On-Line 2/	5	3	3	3	3	-
MAD/ALPHA	3	3	3	3	3	3
STAT	3	3.5	3.5	4	4	4
DOCUMENT DISSEMINATION	1	1	1	1	1	1
RECON 4/	23	27	28	29	30	31
Other	1	1	1.5	1.5	2	3
SUBTOTAL	37.5	40.5	42	44	45.5	44.5
Interim SAFE	12	12.5	13.5	13.5	13.5	-
TOTAL	49.5	53	55.5	57.5	59	44.5

1/ Numbers represent total requirements for 3330 MOD 1 type
   DASD spindles available during prime time (0800 - 1700 daily).
   All packs except RETST1=DA3120, RETST2=DA3121, and
   RECWRK=DA3013 must be accessible during prime time by
   both 195 and the 158-1 main frames.

2/ CRS still plans to gradually convert all AEGIS files to
   RECON. Interim AEGIS SAFE files, however, pose some
   conversion problems that could possibly extend use of
   AEGIS beyond FY80.

STAT 3/

Listed have been coordinated with [   ] requirements [   ] ODP.
This project is a GIMS application, but we are including
DASD projections for this project in an effort to
consolidate CRS requirements.

4/ Experience to date shows the RECON Subject file growing
at the rate of one pack every three months until FY79
when CRS expects to begin purging records over ten years
old. After that period the file will continue to grow
at the rate of one pack per year.

Estimated Core Requirements 1/
(Numbers represent thousands of bytes)

Project	FY77	FY78	FY79	FY80	FY81	FY82
OLDE	430	480	480	480	480	500
AEGIS On-Line	200	200	200	200	200	–
MAD/ALPHA	300	200	200	200	200	200
DOD/IR	200	200	–	–	–	–
DOCUMENT DISSEMINATION	150	150	150	150	150	150
RECON	276	300	300	320	320	320
SUBTOTAL	1556	1530	1330	1350	1350	1170
Interim SAFE 2/	746	746	746	746	746	–
TOTAL	2302	2276	2076	2096	2096	1170

1/ Core requirements reflect estimates for prime time activity
    only. AEGIS Subject Processing, a batch job normally
    executed during evening hours, is not shown.

2/ Interim SAFE includes the individual programs of SQUIRL (40K),
    COLTS II (350K), SAFEOLDE (156K), and OLTA II (200K). The
    entry assumes continuance of Interim SAFE through FY81.

ATTACHMENT III

Estimated Requirements for Low Speed Terminals 1/

ISG	FY77	FY78	FY79	FY80	FY81	FY82
OLDE	3/0	2/0	–	–	–	–
RECON	3/0	2/0	3/0	–	–	–
DSG/ADD						
DOCUMENT DISSEMINATION	10/2	5/2	5/1	–	–	–
DSG/SSD						
Programmer Support	–	2/1	–	–	–	–
Data Management Br 2/	–	2/1	–	–	–	–
DSG/ISG						
Contingency 3/	9/4	3/1	5/2	5/0	5/0	5/2
Interim SAFE	–	–	–	–	–	–
TOTAL	25/6	16/5	13/2 ✓	5/0	5/0	5/2
CUMULATIVE	103/29	119/34	132/36	137/37	142/37	147/39

1/ Entries reflect additional terminal requirements per fiscal year.
Format for individual entries: V/P, where V = number of visual
display units (e.g., Delta Data terminals) and P = number of
on-line printers (e.g., Texas Instrument S-7000).

2/ An additional TI printer and two terminals in FY78 will be used
by DMB for system documentation and as an aid in problem
investigation.

3/ Terminal requirements for FY78/82 are highly speculative.
Estimated requirements for 23 terminals and 5 TI printers
during this period is based on possibility of additional
expansion of on-line services.

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